LB 00125

United States Environmental Protection Agency
Region 4

OTIE
Oneida Total Integrated Enterprises

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

35TH AVENUE REMOVAL INVESTIGATION
BIRMINGHAM, ALABAMA
~~**JEFF CROWLEY**~~ RS **, ON-SCENE COORDINATOR**

FIELD SAMPLING LOGBOOK

Book 2 **of** 2

Inclusive Dates: 08/13/15

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
		,Team Leader
OTIE - Ryan Stubbs	RS	OTIE / Sampler + Documentation
Adam Sickels	AS	Cardno ATC Sampler

Sampling Procedures and Methodology

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SESD) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SESDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than (≤) 5,000 square feet - the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than (>) 5,000 square feet and ≤ ¼-acre - the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over ¼-acre in parcel lot size will be divided into ¼-acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under paved areas or under stationary fixed structures.

Grab sediment samples will be collected in accordance with EPA SESD FBSTP Sediment Sampling (SESDPROC-200-R2) from any surface water drainage pathways located on individual properties, as directed by the OSC, and in and along the banks of the 34th Street North Ditch.

Each surface soil or sediment sample should be homogenized in a stainless steel bowl. One 8-ounce jar will be filled and the remaining sample material will be placed in zip-top bags for screening. Information identifying the location, sample, and date/time will be inscribed on each jar and zip-top bag.

All sample bags will be screened for metals in accordance with SESD FBQSTP Field XRF Measurement (SESDPROC-107-R2) using a Niton XRF. The sample will be dried before sieving or analysis is performed. Once the sample has dried, the sample will be divided into two subsamples; one subsample will be sieved through a #10 screen (2 mm) and the other will be left unsieved. Once separated into sieved and unsieved samples, the zip-top bag will be compressed by folding over the excess plastic and removing as much air and space from the sample as possible. The XRF will be placed directly on the exterior of the compressed sample in the plastic zip-top bag to measure metals concentrations. Following XRF screening, the unsieved portion of the sample material will be containerized into one 8-ounce jars and the sieved portion of the sample will be containerized into another 8-ounce jar.

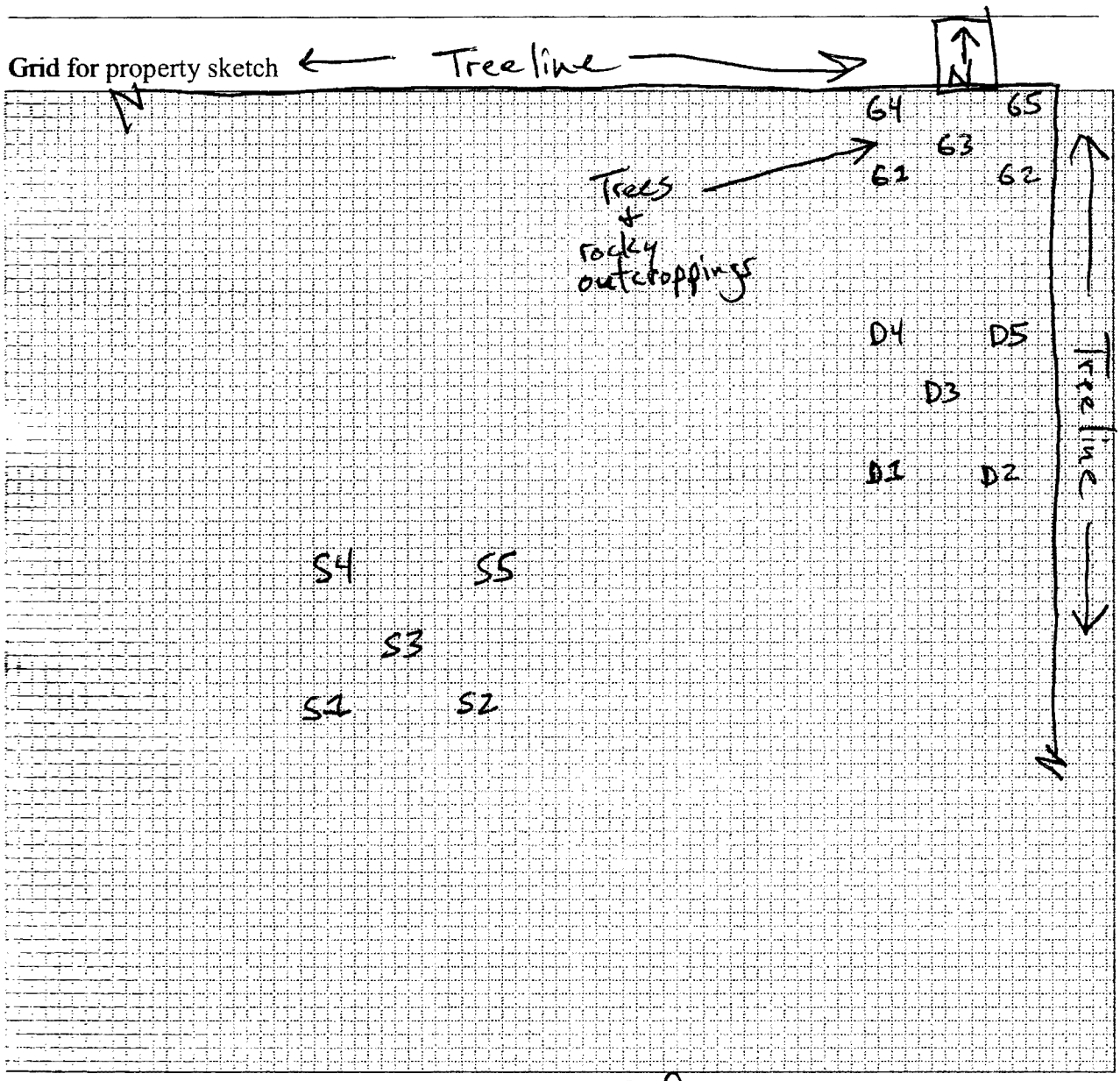
ADDRESS: 3400 33rd Terr. N. **PROPERTY ID:** CV0511

DATE: 8/13/15 **ARRIVAL TIME:** 0755

Other pertinent information (weather conditions, etc.):
~ 70°F + clear

PROPERTY COMMENTS:
Carver School property

Grid for property sketch



School Bld.

STATION ID: CV0511S **SAMPLE ID:** CV0511S-GS-6"

SAMPLE COLLECTION TIME: 0820

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
North of school.

Collection: (Composite) RS or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: Prev. logged Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55844019 RS N *Longitude* -86.79690568 W
Media description: ~~Ref. at 4".~~ Red brn sandy clay dry.

Aliquot #2 *Latitude:* 33.55843656 N *Longitude* -86.79673973 W
Media description: Aug. ref. at 4".

6"

Aliquot #3: *Latitude:* 33.55849837 N *Longitude* -86.79682399 W
Media description: Same as # 2.

Aliquot #4: *Latitude:* 33.55856125 N *Longitude* -86.79690288 W
Media description: Same as # 2.

Aliquot #5: *Latitude:* 33.55856473 N *Longitude* -86.79673932 W
Media description: Same as # 2.

STATION ID: CV0511S **SAMPLE ID:** CV0511S-GS-12"

SAMPLE COLLECTION TIME: 0825

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
Same

Collection: (Composite) RS or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* RS N *Longitude* _____ W
Media description: ~~Ref. at 4".~~ Red brn sandy clay changing to black sandy clay

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W
Media description: Aug. ref. at 4".

12"

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W
Media description: Same as # 2.

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W
Media description: _____

GPS Same As 6"

ADDRESS: 3400 33rd Terr. N. **PROPERTY ID:** CV0511

DATE: 8/13/15 **ARRIVAL TIME:** 0755

Other pertinent information (weather conditions, etc.):

~70°F + clear

PROPERTY COMMENTS:

Carver School property.

Grid for property sketch

See Page 4.

STATION ID: CV0511S SAMPLE ID: CV0511S-GS-18"

SAMPLE COLLECTION TIME: 0830

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
North of school.

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: Prev. logged Logged? (Y) or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: Gray Sandy clay moist w/ coal fragments + Black

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: Aug. ref. at 4".

18" Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

STATION ID: CV0511S SAMPLE ID: CV0511S-GS-24"

SAMPLE COLLECTION TIME: 0835

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
Same

Collection: Composite or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: Gray Sandy clay moist.

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: Aug. ref. at 4".

24" Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

ADDRESS: 3400 33rd Terr. N. PROPERTY ID: CV0511

DATE: 8/13/14 ARRIVAL TIME: ~~0800~~ 0935

Other pertinent information (weather conditions, etc.):
~ 76°F + clear

PROPERTY COMMENTS:
Carver School property.

Grid for property sketch

See page 4.

STATION ID: CV0511S (BS D) **SAMPLE ID:** CV0511S (D) -GS-6" (D)

SAMPLE COLLECTION TIME: 1000

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
North of school along east treeline.

Collection: ~~Composite~~ (BS) or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: Prev. logged Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55864241 N *Longitude* -86.79643683 W
Media description: Orange/red brn sandy clay moist.

Aliquot #2 *Latitude:* 33.55863984 N *Longitude* -86.79627924 W
Media description: Ref. at 4".

6" Aliquot #3: *Latitude:* 33.55871413 N *Longitude* -86.79635220 W
Media description: Same as #2.

Aliquot #4: *Latitude:* 33.55878039 N *Longitude* -86.79642849 W
Media description: Aug. ref. at 5"

Aliquot #5: *Latitude:* 33.55878430 N *Longitude* -86.79628422 W
Media description: Dk brn loam w/ gravel dry. Ref. at 4".

STATION ID: CV0511D **SAMPLE ID:** CV0511S (BS D) -GS-12" (D)

SAMPLE COLLECTION TIME: 1005

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
Same

Collection: ~~Composite~~ (BS) or (Grab) **MS/MSD?** Y or (N)

Field Duplicate or Split: *Yes or* (No) ***If yes, indicate*** **Duplicate/split sample station ID:** _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W
Media description: Orange/red. brn sandy clay moist.

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W
Media description: Ref. at 4".

12" Aliquot #3: *Latitude:* _____ N *Longitude* _____ W
Media description: Same as #2.

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W
Media description: Aug. ref. at 5".

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W
Media description: Aug. ref. at 4".

GPS SAME AS 6"

ADDRESS: 3400 33rd Terr. N. **PROPERTY ID:** CV0511

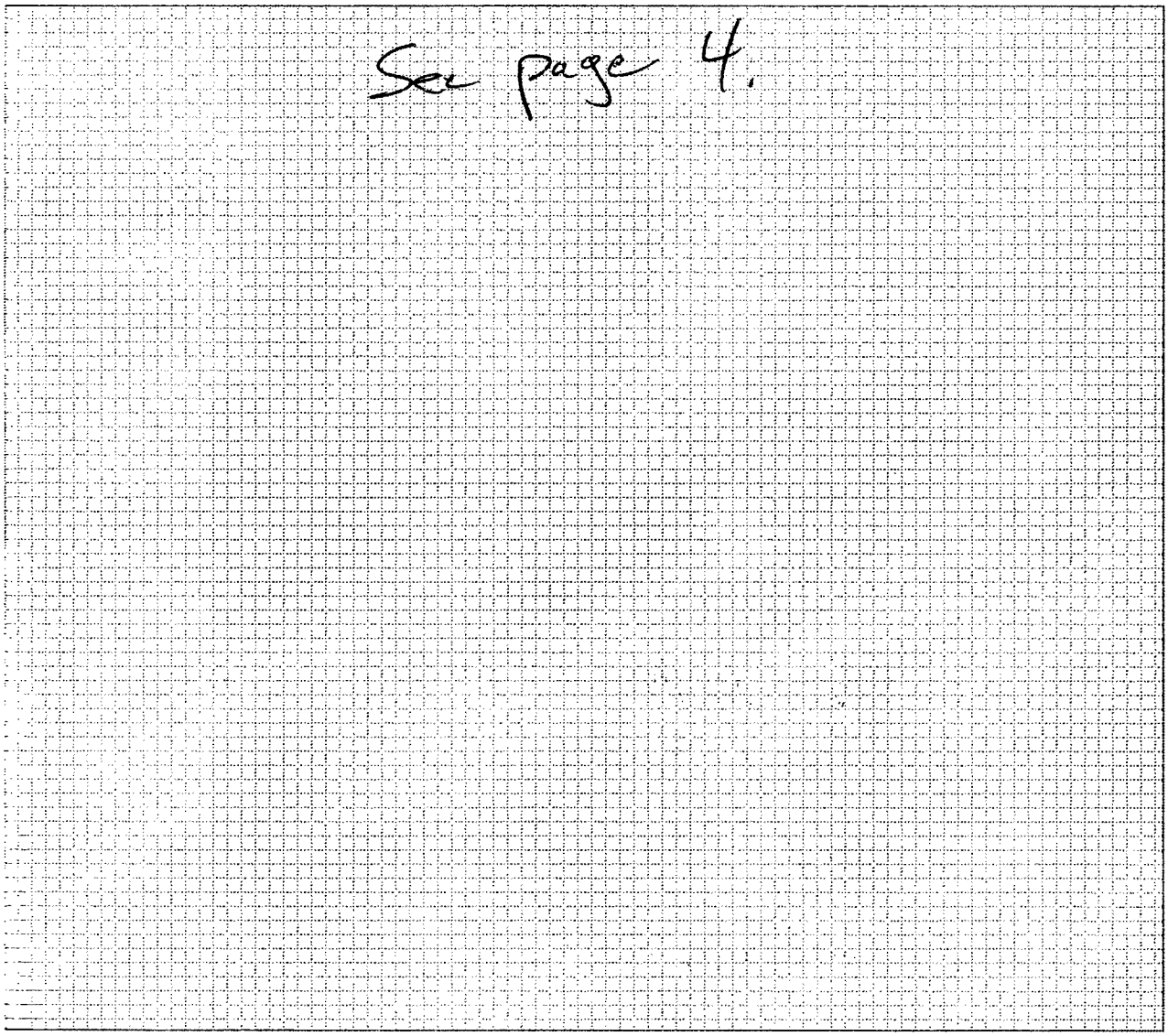
DATE: 8/13/15 **ARRIVAL TIME:** 1005

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Carver School property

Grid for property sketch



STATION ID: CV0511D SAMPLE ID: CV0511D-GS-18"

SAMPLE COLLECTION TIME: 1010

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

See page 10.

Collection: ~~Composite~~ GS or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: Prev. logged Logged? (Y) or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: Gray sandy clay moist.

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: Ref. at 4"

18" Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: Same as #2.

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: Aug. ref at GS #5.

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: Aug. ref. at 4"

STATION ID: CV0511D SAMPLE ID: CV0511D-GS-24"

SAMPLE COLLECTION TIME: 1015

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

See page 10.

Collection: (Composite) GS or (Grab) MS/MSD? Y or (N)

Field Duplicate or Split: *Yes or* (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W

Media description: Gray clay moist.

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W

Media description: Ref at 4".

24" Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: Same as #2.

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W

Media description: Aug. ref. at 5"

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W

Media description: Aug. ref. at 4"

ADDRESS: 3400 33rd Terr. N. **PROPERTY ID:** CV0511

DATE: 8/13/14 **ARRIVAL TIME:** 1005

Other pertinent information (weather conditions, etc.):
~75°F + clear

PROPERTY COMMENTS:
Carver School property.

Grid for property sketch

See page 4.

STATION ID: CV0511G SAMPLE ID: CV0511G-CS-6"

SAMPLE COLLECTION TIME: 1030

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
NE corner of field north of school.

Collection: (Composite) or Grab MS/MSD? Y or (N)

Field Duplicate or Split: Yes or (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: Prev. logged Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55925096 N *Longitude* -86.79641552 W
Media description: Aug. ref. at 4". Lt. to med. brn sandy clay dry.

Aliquot #2 *Latitude:* 33.55924444 N *Longitude* -86.79627260 W
Media description: Same soil as #1. Ref. at 7"

6" Aliquot #3: *Latitude:* 33.55924842 N *Longitude* -86.79632245 W
Media description: Same soil as #1.

Aliquot #4: *Latitude:* 33.55935358 N *Longitude* -86.79641902 W
Media description: Aug. ref. at 4"

Aliquot #5: *Latitude:* 33.55935441 N *Longitude* -86.79628056 W
Media description: Same as #4.

~~GPS Coord~~

STATION ID: CV0511G SAMPLE ID: ~~CV0511G-CS-12"~~ RS

SAMPLE COLLECTION TIME: ~~1035~~ RS

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
Same

Collection: (Composite) RS or Grab MS/MSD? Y or (N)

Field Duplicate or Split: Yes or (No) *If yes, indicate* Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [ ] Instrument #: _____ Logged? (Y) or N

Aliquot #1: *Latitude:* _____ N *Longitude* _____ W
Media description: ~~Aug. ref.~~ 4".

Aliquot #2 *Latitude:* _____ N *Longitude* _____ W
Media description: Aug. ref. at 7".

12" Aliquot #3: *Latitude:* _____ N *Longitude* _____ W
Media description: Same as #2.

Aliquot #4: *Latitude:* _____ N *Longitude* _____ W
Media description: Aug. ref. at 4".

Aliquot #5: *Latitude:* _____ N *Longitude* _____ W
Media description: Same as #4.

* No Sample

GPS SAME AS 6"

ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

_____

PROPERTY COMMENTS:

_____

_____

_____

_____

Grid for property sketch